

Notice of Allowability

Application No.

09/483,164

Examiner

Michael J. Simitoski

Applicant(s)

THOMSEN ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the response of 6/6/2007.
2. ☒ The allowed claim(s) is/are 1-11 and 13-35.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


KAMBIZ ZAND
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

1. The response of 6/6/2007 was received and considered.
2. Claims 1-11 & 13-35 are pending.

Allowable Subject Matter

3. Claims 1-11 & 13-35 are allowed.
4. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, **Sandhu** discloses encapsulating security mechanism application specific information/permissions for each security mechanism/permission (p. 122, §5), wherein encapsulating includes forming a key/ability for each security mechanism/permission, combining keys/abilities to form key chains/abilities, encapsulating key chains/abilities as keys/abilities (p. 122, §5) and passing the key chain keys/abilities to another semantic layer/UP-Roles (p. 122, §5), defining the security policy/UP-Roles (p. 122, §5), wherein defining includes forming key chains from keys/abilities and associating users with key chains/abilities (p. 122, §5), translating the security policy/UP-Roles and exporting the translated security policy to the security mechanisms, and enforcing the security policy via the security mechanisms (p. 107, 5 & Fig. 1).

Regarding claim 6, **Sandhu** discloses a plurality of security mechanisms/permissions, a plurality of semantic layers (UP-Roles, abilities, permissions) (p. 122, §5), wherein the first semantic layer combines keys/abilities, wherein each key encapsulates security mechanism application specific information for a security mechanism (permissions for resources) (p. 122,

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§5), wherein in multiple layers, keys are combined into key chains and exported to another semantic layer (permissions combined into abilities, abilities combined into additional abilities, combination abilities combined into UP-Roles). **Crall** discloses an “Authorization Server”, which employs an interface to make it easy for administrators to manage users (p. 874). In disclosing the physical implementation that Sandhu lacks, Crall further discloses that authorization checks result from the security mechanisms/authorization mechanisms (p. 876, §2.4) when changes are made, translation occurs to keep the authorization database up to date (p. 878, 1).

Regarding claim 11, **Sandhu** discloses a model comprising one or more semantic layers/roles for defining different security policies (p. 122, §5) and constraints (p. 108, 1) for each type of user. **Crall** discloses an “Authorization Server”, which employs an interface to make it easy for administrators to manage users (p. 874). In disclosing the physical implementation that Sandhu lacks, Crall further discloses that authorization checks result from the security mechanisms/authorization mechanisms (p. 876, §2.4) when changes are made, translation occurs to keep the authorization database up to date (p. 878, 1).

However, regarding claims 1-5 & 32, the prior art of record fails to teach or disclose, either alone or in combination, the encapsulating and combining of keys/key chains with an application layer, a semantic layer and a local policy layer, in combination with the remaining elements of the claim(s).

Regarding claim 6-10, the prior art of record fails to teach or disclose, either alone or in combination, wherein the model includes an application layer to encapsulate a security

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mechanism into a key and a local policy layer to associate a user to a key, in combination with the other elements of the claim(s).

Regarding claims 11 & 13, the prior art of record fails to teach or disclose, alone or in combination, a static application policy layer, two or more semantic policy layers, and a dynamic local policy layer, in combination with the other elements of the claim(s).

Regarding claims 14-21 & 33, the prior art of record fails to teach or disclose, either alone or in combination, an application policy layer, a first semantic policy layer, a second semantic policy layer and a local policy layer, in combination with the other elements of the claim(s).

Regarding claims 22-30 & 34, the prior art of record fails to teach or disclose, alone or in combination, a static application policy layer, a semantic policy layer and a dynamic local policy layer, in combination with the other elements of the claim(s).

Regarding claims 31 & 35, the prior art of record fails to teach or disclose, alone or in combination, a static application policy layer, a semantic policy layer and a dynamic local policy layer, in combination with the other elements of the claim(s).

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Simitoski whose telephone number is (571) 272-3841. The examiner can normally be reached on Monday - Thursday, 6:45 a.m. - 4:15 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

August 6, 2007
MJS
/MJS/


KAMBIZ ZAND
SUPERVISORY PATENT EXAMINER